

SEQUENCE LISTING

<110> TERNYNCK, THERESA

AVRAMEAS, ALEXANDRE

BUTTIN, GERARD

AVRAMEAS, STRAITIS

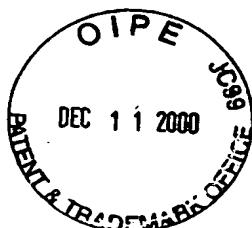
SARON, MARIE-FRANCOISE

BLONDEL, BRUNO

COUDERC, THERESA

MICHELSON, SUSAN

ZIPETO, DONATO



<120> VECTORS DERIVED FROM ANTIBODIES FOR TRANSFERRING SUBSTANCES INTO CELLS

<130> 0660-0166-0XCONT

<140> 09/497,997

<141> 2000-02-04

<150> PCT/FR98/01740

<151> 1998-08-04

<160> 35

<170> PatentIn version 3.0

<210> 1

<211> 17

<212> PRT

<213> Artificial/Unknown

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<223> Description of Artificial Sequence: peptide

<400> 1

Thr Arg Gln Lys Tyr Asn Lys Arg Ala Met Asp Tyr Trp Gly Gln Gly
1 5 10 15

Thr

<210> 2

<211> 17

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 2

Thr Arg Gln Lys Tyr Gly Lys Arg Gly Met Asp Tyr Trp Gly Gln Gly
1 5 10 15

Thr

<210> 3

<211> 18

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 3

Thr Arg Gln Ala Arg Ala Thr Trp Asp Trp Phe Ala Tyr Trp Gly Gln
1 5 10 15

Gly Thr

<210> 4

<211> 22

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 4

Val Ala Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr Ser Asp Thr
1 5 10 15

Val Lys Gly Arg Phe Thr
20

<210> 5

<211> 21

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 5

Val Ala Tyr Ile Ser Arg Gly Gly Ile Phe Tyr Tyr Glu Asp Ser

1 5 10 15

Ile Lys Gly Arg Phe
20

<210> 6

<211> 23

<212> PRT

<213> Artificial/Unknown

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<223> Description of Artificial Sequence: peptide

<400> 6

Val Ala Ala Ile Ser Arg Gly Gly Gly Tyr Ser Tyr Tyr Tyr Leu Asp Ser
1 5 10 15

Val Lys Gly Arg Phe Thr Ile
20

<210> 7

<211> 30

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 7

Val Ala Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr Ser Asp Thr
1 5 10 15

Val Lys Gly Arg Phe Thr Arg Gln Lys Tyr Asn Lys Arg Ala
20 25 30

<210> 8

<211> 12

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 8

Ala Arg Gln Lys Tyr Asn Lys Arg Ala Met Asp Tyr
1 5 10

<210> 9

<211> 31

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 9

Cys Val Ala Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr Ser Asp
1 5 10 15

Thr Val Lys Gly Arg Phe Thr Arg Gln Lys Tyr Asn Lys Arg Ala
20 25 30

<210> 10

<211> 30

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 10

Val Ala Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr Ser Asp Thr

1 5 10 15
Val Lys Gly Arg Phe Thr Arg Gln Lys Tyr Asn Lys Arg Ala
20 25 30

<210> 11

<211> 26

<212> DNA

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: synthetic DNA

<400> 11

gttctgacta gtgggcactc tggct

26

<210> 12

<211> 26

<212> DNA

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: synthetic DNA

<400> 12
gagggttcagc tcgagcagtc tggggc

26

<210> 13

<211> 26

<212> DNA

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: synthetic DNA

<400> 13
gaggtgaagc tcgaggaatc tggagg

26

<210> 14

<211> 25

<212> DNA

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: synthetic DNA

<400> 14

gaagtgcagc tcgaggagtc tgggg

25

<210> 15

<211> 26

<212> DNA

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: synthetic DNA

<400> 15

gaggttcagc tcgagcagtc tggagc

26

<210> 16

<211> 17

<212> PRT

<213> Artificial/Unknown

<220>

<221> misc_feature

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<223> Description of Artificial Sequence: peptide

<400> 16

Thr Arg Gln Lys Tyr Asn Lys Arg Ala Met Asp Tyr Trp Gly Gln Gly
1 5 10 15

Thr

<210> 17

<211> 18

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 17

Thr Arg Gln Lys Tyr Asn Lys Lys Arg Gly Met Asp Tyr Trp Gly Gln
1 5 10 15

Gly Thr

<210> 18

<211> 18

<212> PRT

<213> Artificial/Unknown

<220>

<221> misc_feature

<222> () . . ()

<223> Description of Artificial Sequence: peptide

<400> 18

Thr Arg Gly Ala Arg Ala Thr Trp Asp Trp Phe Ala Tyr Trp Gly Gln
1 5 10 15

Gly Thr

<210> 19

<211> 21

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 19

Val Ala Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr Ser Asp Thr
1 5 10 15

Val Lys Gly Arg Phe
20

<210> 20

<211> 22

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 20

Val Ala Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr Ser Asp Thr
1 5 10 15

Val Lys Gly Arg Phe Thr
20

<210> 21

<211> 20

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 21

Val Ala Tyr Ile Ser Arg Gly Gly Ile Phe Tyr Tyr Gln Asp Ser Ile
1 5 10 15

Lys Gly Arg Phe
20

<210> 22

<211> 23

<212> PRT

<213> Artificial/Unknown

<220>

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<222> () . . ()

<223> Description of Artificial Sequence: peptide

<400> 22

Val Ala Ala Ile Ser Arg Gly Gly Gly Tyr Ser Tyr Tyr Leu Asp Ser
1 5 10 15

Val Lys Gly Arg Phe Thr Ile
20

<210> 23

<211> 33

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 23

Val Ala Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr Ser Asp Thr
1 5 10 15

Val Lys Gly Arg Phe Thr Arg Gln Lys Tyr Asn Lys Arg Ala Val Ala
20 25 30

Tyr

<210> 24

<211> 28

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 24

Ala Ile Ser Arg Gly Gly Tyr Ser Tyr Tyr Leu Asp Thr Val Lys
1 5 10 15

Arg Thr Ala Arg Ala Thr Trp Asp Trp Phe Ala Tyr
20 25

<210> 25

<211> 105

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 25

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
1 5 10 15

Ser Tyr Ala Met Ser Trp Val Arg Gln Thr Pro Ala Lys Arg Leu Glu
20 25 30

Trp Val Ala Tyr Ile Ser Arg Gly Gly Gly Ile Phe Tyr Tyr Gln Asp
35 40 45

Ser Ile Lys Gly Arg Phe Thr Ile Ala Arg Asp Asn Ala Lys Asn Thr
50 55 60

Leu Tyr Leu Gln Met Ser Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr
65 70 75 80

Tyr Cys Thr Arg Glu Lys Tyr Gly Lys Arg Gly Met Asp Tyr Trp Gly

85

90

95

Gln Gly Thr Ser Val Thr Val Ser Ser
100 105

<210> 26

<211> 107

<212> PRT

<213> Artificial/Unknown

<220>

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<222> () . . ()

<223> Description of Artificial Sequence: peptide

<400> 26

Glu Thr Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
1 5 10 15

Phe Ser Ser Tyr Ala Met Ser Trp Val Arg Gln Thr Pro Ala Lys Arg
20 25 30

Leu Glu Trp Val Ala Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr
35 40 45

Ser Asp Thr Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
50 55 60

Asn Thr Leu Ser Leu Gln Met Ser Ser Leu Arg Ser Glu Asp Thr Ala
65 70 75 80

Met Tyr Tyr Cys Ala Arg Gln Lys Tyr Asn Lys Arg Ala Met Asp Tyr
85 90 95

Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser
100 105

<210> 27
<211> 110
<212> PRT
<213> Artificial/Unknown

<220>
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<223> Description of Artificial Sequence: peptide

<400> 27

Ala	Leu	Val	Lys	Pro	Gly	Gly	Ser	Leu	Lys	Leu	Ser	Cys	Ala	Ala	Ser
1				5					10					15	
Gly	Phe	Thr	Phe	Ser	Asn	Tyr	Gly	Met	Ser	Trp	Val	Arg	Gln	Thr	Pro
	20						25						30		
Glu	Lys	Arg	Leu	Glu	Trp	Val	Ala	Ala	Ile	Ser	Arg	Gly	Gly	Tyr	
	35					40						45			
Ser	Tyr	Tyr	Leu	Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp
	50				55					60					
Asn	Ala	Arg	Asn	Thr	Leu	Tyr	Leu	Gln	Met	Ser	Ser	Leu	Arg	Ser	Glu
	65				70				75					80	
Glu	Thr	Ala	Met	Tyr	Tyr	Cys	Ala	Arg	Thr	Ala	Arg	Ala	Thr	Trp	Asp
	85					90							95		
Trp	Phe	Ala	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ala		
	100					105						110			

<210> 28
<211> 109

<212> PRT

<213> Artificial/Unknown

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<223> Description of Artificial Sequence: peptide

<400> 28

Glu Leu Val Arg Gly Ala Ser Val Lys Val Ser Cys Thr Thr Ser Gly
1 5 10 15

Phe Thr Asn Ile Lys Asp Asp Tyr Ile His Trp Val Arg Gln Arg Pro
20 25 30

Glu Gln Gly Leu Glu Trp Ile Gly Arg Ile Asp Pro Ala Asn Gly Lys
35 40 45

Thr Lys Tyr Ala Pro Lys Phe Gln Asp Lys Ala Thr Ile Thr Ala Asp
50 55 60

Thr Ser Ser Asn Thr Ala Tyr Leu Gln Leu Ser Ser Leu Thr Ser Glu
65 70 75 80

Asp Thr Ala Val Tyr Tyr Cys Ala Arg Gly Leu Thr Arg Trp Tyr Phe
85 90 95

Asp Val Trp Gly Ala Gly Thr Thr Val Thr Leu Ser Ala
100 105

<210> 29

<211> 109

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 29

Gly Leu Val Lys Pro Gly Ala Ser Val Lys Val Ser Cys Asn Val Ser
1 5 10 15

Gly Tyr Ser Phe Thr Gly Tyr Phe Met Asn Trp Val Arg Gln Ser His
20 25 30

Gly Lys Ser Leu Glu Trp Val Gly Arg Ile Asn Pro Leu Asn Gly Asp
35 40 45

Thr Phe Tyr Asn Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr Val Asp
50 55 60

Lys Ser Ser Thr Leu Ala His Met Glu Leu Arg Leu Arg Lys Ser Glu
65 70 75 80

Asn Ser Ala Val Tyr Tyr Cys Ala Arg Gly Leu Thr Arg Trp Tyr Phe
85 90 95

Met Val Trp Gly Ala Gly Thr Thr Val Thr Leu Ser Ala
100 105

<210> 30

<211> 17

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 30

Tyr Ile Ser Arg Gly Gly Ile Phe Tyr Tyr Gln Asp Ser Ile Lys
1 5 10 15

Gly

<210> 31

<211> 17

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 31

Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr Ser Asp Thr Val Lys
1 5 10 15

Gly

<210> 32

<211> 17

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 32

Ala Ile Ser Arg Gly Gly Tyr Ser Tyr Tyr Leu Asp Ser Val Lys
1 5 10 15

Gly

<210> 33

<211> 10

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 33

Glu Lys Tyr Gly Lys Arg Gly Met Asp Tyr
1 5 10

<210> 34

<211> 10

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 34

Gln Lys Tyr Asn Lys Arg Ala Met Asp Tyr
1 5 10

<210> 35

<211> 11

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 35

Thr Ala Arg Ala Thr Trp Asp Trp Phe Ala Tyr
1 5 10

Al
Cans